

Comparisons of Job Characteristics

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Computers and Electronics	8.4	17.5	14.7	<	Expanded education and/or training may be required
Mechanical	6.8	16.4	9.6	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.7	13.0	>	Current knowledge level is likely sufficient
Design	5.2	9.6	6.4	<<	Extensive education and/or training may be required
Telecommunications	3.9	6.9	6.3	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Quality Control Analysis	5.9	13.3	11.8	<	A higher skill level may be required
Repairing	3.4	13.3	13.9	0	Current skill level may be sufficient
Operation Monitoring	6.6	12.6	11.5	0	Current skill level may be sufficient
Troubleshooting	4.5	12.0	13.8	>	Skill level is likely sufficient
Equipment Maintenance	3.5	11.1	13.5	>	Skill level is likely sufficient
Equipment Selection	3.3	10.5	9.1	<	A higher skill level may be required
Installation	1.7	9.3	5.4	<<	Extensive development of skills in this area may be required

Technology Design	2.6	6.3	2.6	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84			
Focus Occupation: Avionics Technicians (49-2091)					
Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	12.9	11.5	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.9	8.1	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	11.2	10.2	0	Current ability level may be sufficient
Flexibility of Closure	7.8	11.0	8.3	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	10.7	7.6	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.6	8.5	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	9.3	7.0	<<	Extensive improvement in abilities may be required
Speed of Closure	5.9	8.8	5.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 93
Focus Occupation: Avionics Technicians (49-2091) Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Calibrate or adjust electronic equipment or instruments to specification	67	
Conduct sequential tests to locate electronic malfunction	77	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electrical fixtures or components	71	
Install electronic equipment, components, or systems	62	
Install electronic power, communication, control, or security equipment or systems	76	
Install or replace meters, regulators, or related measuring or control devices	66	
Install/connect electrical equipment to power circuit	57	

Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read technical drawings	7
Repair electronic components, equipment, or systems	74
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand detailed electronic design specifications	70
Understand service or repair manuals	40
Understand technical information for electronic repair work	76
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use oscilloscopes in electronics repair	77
Use precision tools in electronics repair	71
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Tools and Technologies	Exclusivity
Anti static equipment and supplies	56
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Measuring and layout tools	3

Power tools	2
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.